| · | Application No. | Applicant(s) |
|--|--|---|
| Nation of Allamakilita | 09/944,951 | DENNIS ET AL. |
| Notice of Allowability | Examiner | Art Unit |
| | Jeanine A Goldberg | 1634 |
| The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 | (OR REMAINS) CLOSED in this apport or other appropriate communication GHTS. This application is subject to | plication. If not included will be mailed in due course. THIS |
| 1. This communication is responsive to 9/20/04; 10/18/04; 12 | <u>/3/04</u> . | |
| 2. The allowed claim(s) is/are <u>1-8,10-33 and 39</u> . | | |
| 3. The drawings filed on <u>7/16/03</u> are accepted by the Examiner. | | |
| 4. Acknowledgment is made of a claim for foreign priority una a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: | been received. been received in Application No | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. | | complying with the requirements |
| 5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give | | |
| 6. CORRECTED DRAWINGS (as "replacement sheets") mus | t be submitted. | |
| (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached | | |
| 1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date | | |
| (b) including changes required by the attached Examiner's Paper No./Mail Date | Amendment / Comment or in the C | Office action of |
| Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the | 84(c)) should be written on the drawing he header according to 37 CFR 1.121(| ngs in the front (not the back) of d). |
| 7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I | | |
| | · | |
| Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 | 6. ⊠ Interview Summary Paper No./Mail Dat | te <u>0105</u> . |
| Paper No./Mail Date 1004 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8. ⊠ Examiner's Stateme 9. □ Other | ent of Reasons for Allowance LUNC SOURCE A. GOLDBERG TEXAMENER |

Application/Control Number: 09/944,951 Page 2

Art Unit: 1634

DETAILED ACTION

1. This action is in response to the papers filed September 20, 2004, October 18, 2004, and December 3, 2004. Currently, claims 1-8,10-33 and 39 are pending.

- 2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on September 20, 2004 has been entered.
- 3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Siegfried Ruppert on January 26, 2005.

EXAMINERS AMENDMENT

- 4. The application has been amended as follows:
 - A) Claims 34-38 have been canceled without disclaimer or prejudice.
- B) Because the quality of the document filed December 3, 2004 was illegible, a copy was subsequently provided by applicant. A copy of all pending claims has been attached.

REASONS FOR ALLOWANCE

5. The following is an examiner's statement of reasons for allowance.

The claims have been amended to require "differentiating DNA species originating from cells of different individuals, the method comprising the steps of obtaining from one of the individuals a biological sample comprising the DNA species originating from the cells of different individuals." The claims has been amended to require that the sample obtained is cells from one of the individuals. The claims no longer read upon DNA species of maternal and paternal origin in an individual since maternal and paternal origin cells are not present in an individual, but rather parts of the cells are maternal and parts of the cells are paternal.

The prior art does not teach or suggest analyzing a single individuals cells for the presence of another individuals cells using methylation. While the prior art teaches analyzing maternal blood for fetus nucleic acid such as Y chromosomes or another paternally inherited trait, the prior art does not teach analyzing methylation. The prior art also analyzes organ transplant individuals using Y chromosomes, but fails to teach or suggest methylation patterns. Therefore, the prior art fails to teach of suggest the claimed invention as a whole.

6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably Art Unit: 1634

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Jeanine Goldberg whose telephone number is (571) 272-0743. The examiner can normally be reached Monday-Friday from 7:00 a.m. to 4:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Jones, can be reached on (571) 272- 0745.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

The Central Fax Number for official correspondence is (571) 273-8300.

Jeanine Goldberg
Patent Examiner

January 27, 2005